

# OPEN Alliance Automotive Ethernet ECU Test Specifications

## Test Tool Package

**HARMAN**, a leading automotive supplier for Infotainment and Car Audio worldwide, relies on Spirent automated test solutions to ensure high quality, standards compliant products.

**HARMAN** is using the OPEN Alliance SIG Conformance Test Suite Pack for in-car network tests.

„We are testing Automotive Ethernet, the TCP/IP protocol family, and various other automotive protocols like SomEIP, AVB for Infotainment control devices like amplifier, head units, telematic modules and more“, says Mr. Eisinger, Qualification Engineer at **HARMAN**'s Compliance Tests Center.

„If these tests pass, we can guarantee to our customers that those protocols are implemented correctly. Spirent's OPEN Alliance test solution helps us to ensure the interoperability of ECUs from different vendors, which is a crucial requirement to meet quality and security standards. We are very pleased with the solution's user-friendly handling and with Spirent's fast and competent support.“

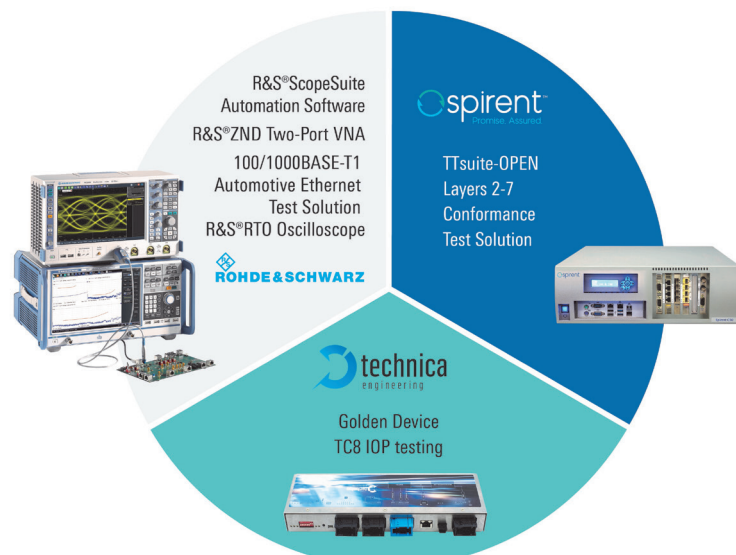
The OPEN Alliance's Technical Committee 8 (TC8) is responsible for defining test processes within that standardization body. It enables test houses to perform ECU testing by establishing regular audits of the test specifications and the requirements to increase communication quality of the Ethernet ECUs and networks in an automotive system.

These special Spirent promotion packages provide fully-fledged solutions for testing the Automotive Ethernet - from the transmission signals of the physical layer to the bits and bytes of the upper protocol layers.

- Test scope Layer 1: Interoperability & compliance
- Test scope Layer 2 and above: TCP/IP protocol family & automotive protocols

### Components Each Package Includes:

- **SPIRENT** Automotive C1 **or** C50 Hardware (details on page 2)
- **SPIRENT** TTsuite-OPEN incl. TTworkbench Express Software (for test scope TCP/IP protocol family & test scope Automotive protocols)
- **ROHDE & SCHWARZ** R&S®ScopeSuite Automation Software, R&S®ZND 2-Port Vector Network Analyzer & Probes plus test fixtures, R&S®RTO Digital Oscilloscope
- **TECHNICA ENGINEERING** Technica Engineering MediaGateway & ANDi Tool for Automotive application testing, „Golden Device“ for 100BASE-T1 interoperability tests



### About Spirent Communications

Spirent Communications (LSE: SPT) is a global leader with deep expertise and decades of experience in testing, assurance, analytics and security, serving developers, service providers, and enterprise networks.

We help bring clarity to increasingly complex technological and business challenges.

Spirent's customers have made a promise to their customers to deliver superior performance. Spirent assures that those promises are fulfilled.

For more information, visit: [www.spirent.com](http://www.spirent.com)

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### Available Spirent Hardware Systems:

- **AUTOMOTIVE C1 Full Automotive Ethernet PROMO PACK**  
This package is based on the SPIRENT AUTOMOTIVE C1 Test Appliance with 4 Port BroadR-Reach.



- **AUTOMOTIVE C50 Full Automotive Ethernet PROMO PACK**  
This package is based on the SPIRENT AUTOMOTIVE C50 Test Appliance with 12 Port BroadR-Reach + 4 Port 1G SFP (for 100Base-T1, 1000Base-T1 or classical Ethernet).



### AUTOMOTIVE PROMO TRAINING 3-Day OPEN TC8 Testing

This is a specific TC8 testing training that can be purchased associated with the promotion packages. Dates will be set in following destinations:

- Munich (Germany)
- Detroit (USA)
- Tokyo (Japan)
- Seoul (Korea)
- Beijing (China)
- Bengaluru (India)



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